

REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional)

T397-306

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 6019906, granted FEB. 1, 2000, and for which a

reissue patent is sought on the invention entitled HARD MASKING METHOD FOR FORMING PATTERNED OXYGEN CONTAINING PLASMA ETCHABLE LAYER. the specification of which

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as reissue application number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

THE SPECIFICATION DISCLOSES BUT DOES NOT CLAIM THAT THE OXYGEN CONTAINING PLASMA ETCHABLE MICROELECTRONICS LAYER MAY COMPOSE A SPIN-ON MATERIAL.

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)

TS97-306

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Name(s)

Registration Number

GEORGE O. SALLE 19,572

STEPHEN B. ACKERMAN 37,761

Correspondence Address: Direct all communications about the application to:

☐ Customer Number

Type Customer Number here

Place Customer Number Bar Code Label here

☒ Firm or Individual Name

GEORGE O. SALLE + ASSOCIATES

Address

20 MCINTOSH DRIVE

Address

City

POUGHKEEPSIE

State

NY

Zip

12603

Country

USA

Telephone

845-452-5863

Fax

845-471-2064

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of sole or first inventor (given name, family name)

SHUN-MING JANG

Inventor's signature

Date

1/31/02

Residence

9F, 83 N. Kuan-Hua St., Hsin-Chu

Citizenship

Republic of China

Mailing Address

No. 121 Park Ave Rd III SBIP Hsinchu TAIWAN R.O.C.

Full name of second joint inventor (given name, family name)

MING-HSIN HUANG

Inventor's signature

Date

1/31/02

Residence

No. 4 Lane 846 Nan-Pa Road Hsin-Chu

Citizenship

Republic of China

Mailing Address

No. 121 Park Ave Rd III SBIP Hsinchu TAIWAN R.O.C.

Full name of third joint inventor (given name, family name)

Inventor's signature

Date

Residence

Citizenship

Mailing Address

☐ Additional joint inventors are named on separately numbered sheets attached hereto.

2005-01-01

**REISSUE APPLICATION: CONSENT OF ASSIGNEE;  
STATEMENT OF NON-ASSIGNMENT**

Docket Number (Optional)

TS 97-306

This is part of the application for a reissue patent based on the original patent identified below

Name of Patentee(s)

SYUN-MING JANG, MING-HSIN HUANG

Patent Number

6,019,906

Date Patent Issued

FEB. 1, 2000

Title of Invention

HARD MASKING METHOD FOR FORMING PATTERNED OXYGEN  
CONTAINING PLASMA ETCHABLE LAYER

- ☒ Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96)
- ☐ Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".  
The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are TAIWAN SEMICONDUCTOR  
and the assignee(s) consents to the accompanying application for reissue. MANUFACTURING COMPANY, LTD

Name of assignee/inventor (if not assigned)

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD

Signature

Richard L. Thurston

Date

JANUARY 31, 2002

Typed or printed name and title of person signing for assignee (if assigned)

RICHARD L. THURSTON  
GENERAL COUNSEL + VP

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD

Application No./Patent No.: 6019906 Filed/Issue Date: FEB. 1, 2000

Entitled: HARD MASKING METHOD FOR FORMING PATTERNED OXYGEN CONTAINING

TAIWAN SEMICONDUCTOR MANUFACTURING CORPORATION PLASMA ETCHABLE LOW  
(Name of Assignee) COMPANY, LTD (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

In the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 9221, Frame 0364, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

JANUARY 31, 2002  
Date

RICHARD L. THURSTON  
Typed, printed name  
[Signature]  
Signature

GENERAL COUNSEL, VP  
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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## REISSUE APPLICATION DECLARATION BY THE ASSIGNEE

Docket Number (optional)

TS97-306

I hereby declare that:

My residence and mailing address and citizenship are stated below next to my name.

I am authorized to act on behalf of the following assignee: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY,  
and the title of my position with said assignee is: \_\_\_\_\_

The entire title to the patent identified below is vested in said assignee.

Name of Patentee(s):

SHUN-MING JANG, MING-HSIN HUANG

Patent Number

6,019,906

Date of Patent Issued

FEB. 1, 2000

Title of Invention

HARD MASKING METHOD FOR FORMING PATTERNED OXYGEN CONTAINING PLASMA ETCHABLE LAYER

I believe said patentee(s) to be the original, first and sole/joint inventor(s) of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention entitled \_\_\_\_\_

the specification of which

☒ is attached hereto.☐ was filed on \_\_\_\_\_ as reissue application number \_\_\_\_\_ / \_\_\_\_\_  
and was amended on \_\_\_\_\_  
(If applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.
- ☐ by reason of other errors.

At least one error upon which reissue is based is described as follows:

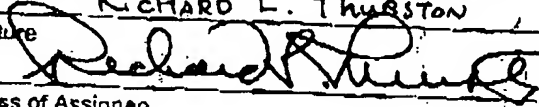
THE SPECIFICATION DISCLOSED BUT DOES NOT CLAIM THAT THE OXYGEN CONTAINING PLASMA ETCHABLE MICROELECTRONICS LAYER MAY COMPRISE A SPIN-ON MATERIAL.

[Attach additional sheets, if needed.]

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant.

(Page 1 of 2)

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

REISSUE APPLICATION DECLARATION BY THE ASSIGNEE		Docket Number (Optional) TS97-306	
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.			
Name(s)		Registration Number	
GEORGE O. SAILLE		19,572	
STEPHEN B. ACKERMAN		37,761	
Correspondence Address: Direct all communications about the application to:			
<input type="checkbox"/> Customer Number		<div style="border: 1px solid black; width: 150px; height: 30px; margin: 0 auto;"></div> <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center; margin: 0 auto;">             Place Customer Number Bar Code Label Here           </div>	
OR		Type Customer Number Here	
<input checked="" type="checkbox"/> Firm or Individual Name	GEORGE O. SAILLE + ASSOCIATES		
Address	20 MCINTOSH DRIVE		
Address			
City	POUGHKEEPSIE	State	NY
Country	USA	Zip	12603
Telephone	845-452-5863	Fax	845-471-2064
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.			
Full name of person signing (given name, family name) RICHARD L. THURSTON, VP			
Signature 		Date January 31, 2002	
Address of Assignee No. 121 Park Ave. Rd. III Science-Based Industrial Park, Hsin-Chu 300, Taiwan, R.O.C.			
Patentee	SYUN-MING JANG		
	Citizenship V Republic of China		
Residence/Mailing Address V 7F, 83 N. Kuan-Hua St., Hsin-Chu, Taiwan, R.O.C.			
Patentee	MING-HSIN HUANG		
	Citizenship Republic of China		
Residence/Mailing Address No. 14 Lane 846 Nan-Da Road Hsin-Chu, Taiwan, R.O.C.			
<input type="checkbox"/> Additional Patentees are named on separately numbered sheets attached hereto.			